Agency: Commerce, Community and Economic Development

Grants to Named Recipients (AS 37.05.316)

Grant Recipient: Kuskokwim Public Broadcasting Corporation

Project Title:

Kuskokwim Public Broadcasting Corporation - Power Grid Extension to KSKO Transmitter

State Funding Requested: $ 50,000 **House District:** 6 - C

One-Time Need

Brief Project Description:

Currently Kuskokwim Public Broadcasting Corp runs their own generator at the transmitter site. This is a cumbersome and expensive task. The local power company could expand their grid by putting in 30 additional poles.

Funding Plan:

Total Cost of Project: $50,000

Funding Secured		Other Pending Requests		Anticipated Future Need	
Amount	*FY*	*Amount*	*FY*	*Amount*	*FY*

There is no other funding needed

Detailed Project Description and Justification:

The Kuskokwim Public Broadcasting Corp./KSKO provides a vital service in McGrath and surrounding communities. Currently they are providing power to their transmitter which is a cumbersome and expensive task. They would like to be on the local power grid, so as not to experience time off the air when they have generator problems. To be part of the grid they need to install 30 power poles to the transmitter site.

Project Timeline:

Project will occur in 2009.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Kuskokwim Public Broadcasting Corp.

Grant Recipient Contact Information:

Contact Name: Mike Lane
Phone Number: (907) 524-3001
Address: PO Box 70 McGrath, AK 99627
Email:

Has this project been through a public review process at the local level and is it a community priority? [X] Yes [ ] No

For use by Co-chair Staff Only:

4:01 PM 4/29/2008

Contact Name: Melanie Herbert
Contact Number: 465-4527

PO Box 70
McGrath, AK 99627
Phone: (907) 524-3001
Fax: (907) 524-3436

Kuskokwim Public Broadcasting Corp.

orig AP file
copy - Com. file
Senator
reading file

Fax

To: Dorothy Schockey	From: Mike Lane
Fax: 907 486-3346	Date: January 29, 2007
Phone:	Pages: 6 w/cover
Re:	CC:

KSKO McGrath
$250,000

Comments:

Hello Dorothy,

Pardon me for being so tardy in forwarding this information to you.

Presently KSKO is generating 10KW of electricity to power our AM transmitter. Would being on the power grid save us money? Yes, and it would put the local power company in charge of generating the power. What this means is that people who have the expertise in running generators would be doing so. This would guarantee that the problems KSKO has experienced in the recent past: blown generator, flying in technicians, long periods off the air, would be no more. It would also negate KSKO's need to service, on a daily basis, a remote generation site which translates into less operating cost for maintenance.

Again, sorry for being so late in getting this to Senator Kookesh's Office. If there's anything else you need please let me know. I'm promise I'll get it to you pronto!

Thanks,

Mike Lane, general manager, KSKO

extend power line to transmitter site

Chris Coyle

From: Albert T. Sakata [atsakata@gci.net]
Sent: Friday, September 15, 2006 1:37 PM
To: Chris Coyle
Subject: Re: McGrath Light & Power

Chris

Thanks for the info.
Based on what you sent me, I have assumed 6 angles and one deadend in the line.

The distance of 7300 feet translates at 30 poles 40/3 type and using a 1/0 ACSR conductor and a line built according REA construction standards or RUS Heavy Loading District. Pole heights will allow later on to run below the neutral, phone or CATV circuits.

This line will be insulated good for up to 15,000 volts. Each pole will be grounded.
It is assumed that line will be built at the road City ROW and ROW clearing is not required.
Material freight costs are included and also it is assumed that construction equipment is available for rent locally.

The total costs is estimated at $ 250,000 where roughly includes in the total 10% for engineering and inspection.
The estimate does not include any costs for transformers, service loops or meters, fuse disconnects , voltage regulators or capacitors

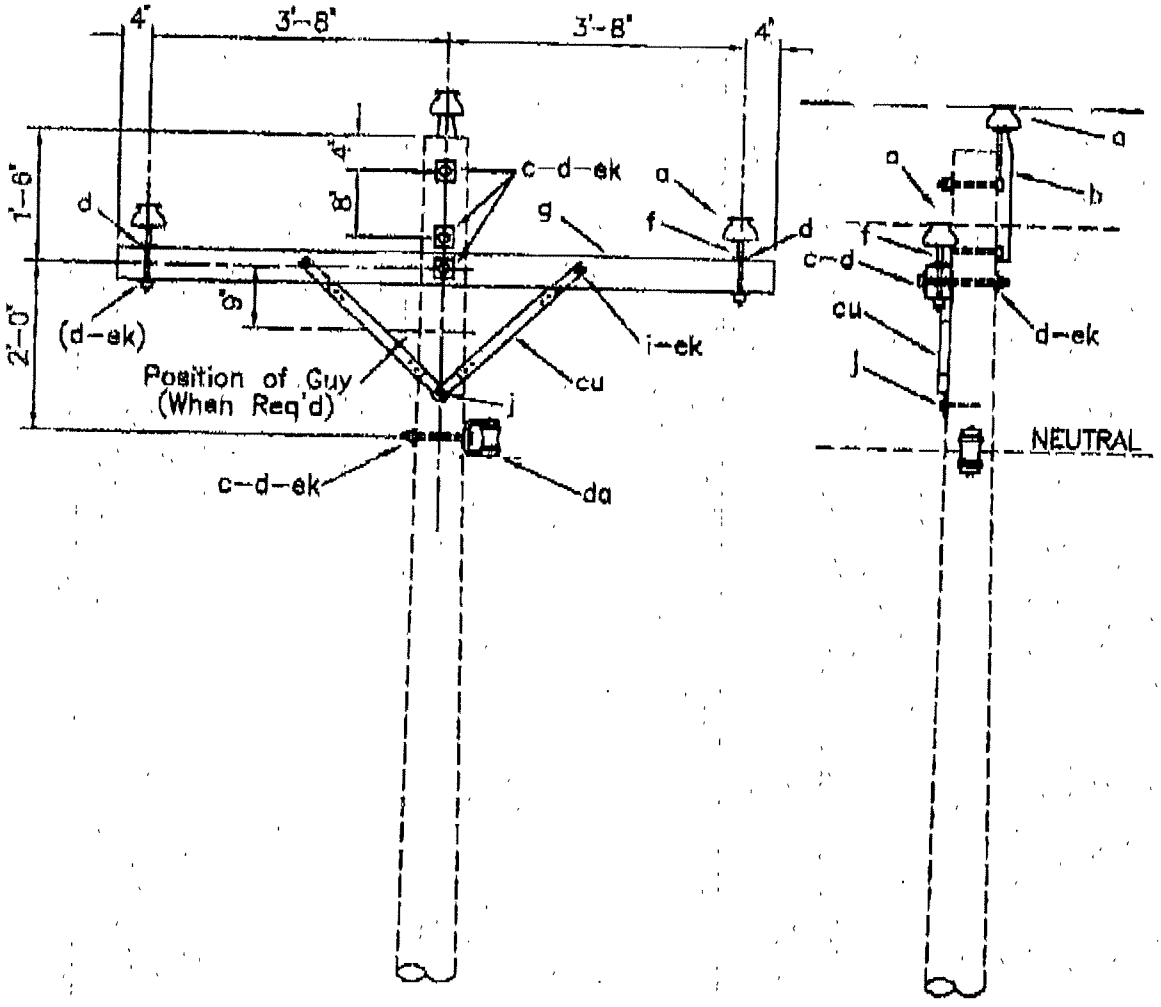
Let me know if you have any questions or comments.

I have attached typical line assemblies drawings for tangent an line angles.

Albert T. Sakata
Sakata Engineering Services
907-351-5532, 907-344-6508 fax

----- Original Message -----
From: Chris Coyle
To: atsakata@gci.net
Sent: Wednesday, September 13, 2006 2:38 PM
Subject: McGrath Light & Power

Hi Albert,
I went out and measured the distance a little better. These are the angles on the road. Let me know if you need more information or if this doesn't open.
Thanks a bunch.
Chris Coyle
Mcgrath Light & Power
907-524-3055



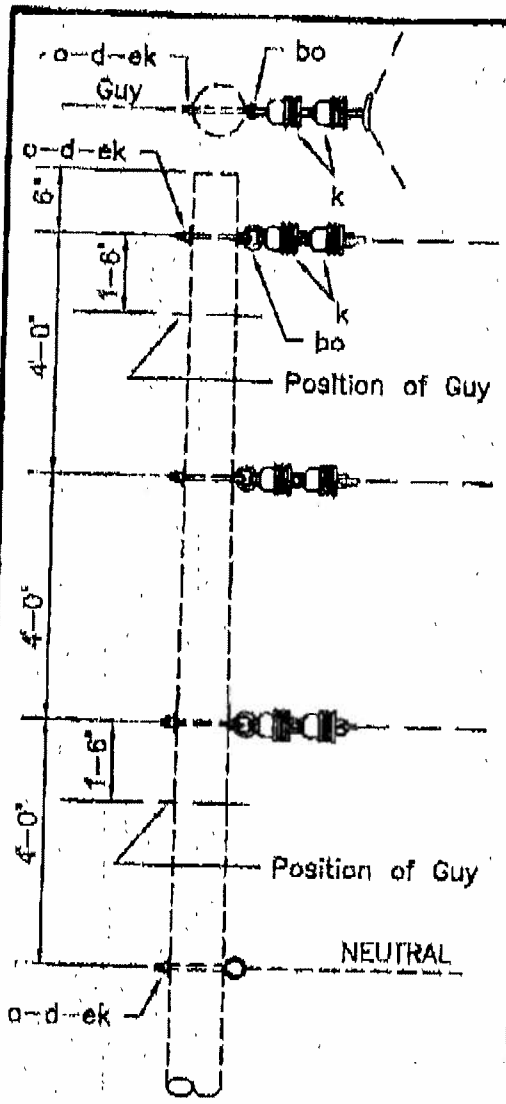
ITEM	QTY	MATERIAL
a	3	Insulator, pin type (12.47/7.2 kV)
b	1	Pin, pole top, 20"
c	4	Bolt, machine, 5/8" x req'd length
d	7	Washer, square, 2 1/4"
f	2	Pin, crossarm, steel, 5/8" x 10 3/4"
g	1	Crossarm, 3 5/8" x 4 5/8" x 8' - 0"
i	2	Bolt, carriage, 3/8" x 4 1/2"
j	1	Screw, lag, 1/2" x 4"
cu	2	Brace, 28"
da	1	Bracket, insulated
ek	6	Locknuts

DESIGN PARAMETERS:

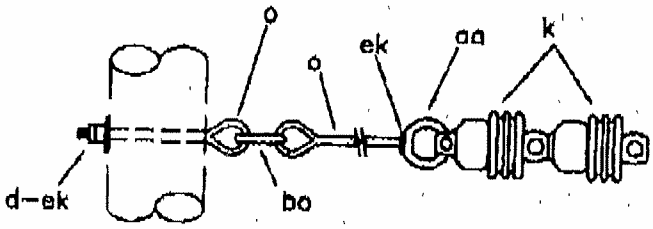
See TABLE I

SINGLE SUPPORT ON CROSSARM

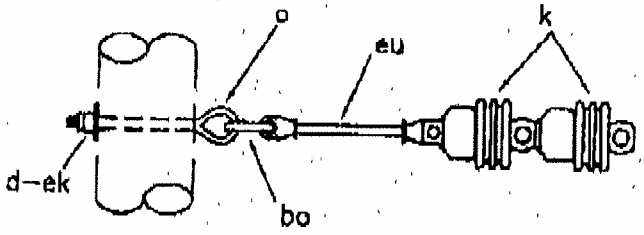
APRIL 2005	3 - PHASE PRIMARY		
RUS	12.47/7.2 kV		C1.13



C3.1



C3.2



C3.3

NOTE: Extension link (item "eu" or "du") or eyebolt (item "o"), eyenut (item "aa") and locknut (item "ek") may be installed in 2 lower primary positions. Adjust material as required.

ASSEMBLY: C3

ITEM	MATERIAL	.1 QTY	.2 QTY	.3 QTY
d	Washer, square, 3", curved	4	4	4
k	Insulator, suspension, 4 1/4"	6	6	6
o	Bolt, eye, 5/8"x req'd length	4	7	4
aa	Nut, eye		3	
bo	Shackle, anchor	4	4	4
ek	Locknuts	4	7	4
eu (du)	Link, extension, insulated (Link, extension) — (optional)			3 (3)

DESIGN PARAMETERS:

PERMITTED TRANSVERSE LOAD= 5000 lbs./Conductor
20° – 60: #1/0 ACSR & Larger
30° – 60: Smaller Conductors

SUSPENSION ANGLE

APRIL 2005	3 – PHASE PRIMARY	C3.1,C3.2,C3.3
RUS	12.47/7.2 kV	(C3)

APBC Resolution

006-01

Resolution of Support to Electrify Public Radio Stations KSKO And KIYU

WHEREAS, Alaska's public radio stations provide a unique and critical service to Alaskans in sole service areas,

WHEREAS, the Alaska's public radio stations KIYU-AM in Galena and KSKO-AM in McGrath are two sole service stations serving their communities and additionally vast surrounding areas of rural interior Alaska with news and information where no other radio service exists,

WHEREAS, these two public stations provide listeners with information regarding weather and storm forecasts affecting listener decision making when to travel rivers in summer and ice roads in winter, often in hostile and unforgiving conditions where roads do not exist to tie communities together,

WHEREAS, these two stations in Galena and McGrath are the primary source for listeners announcing approaching forest fires, storms, annual river ice jams and associated flooding conditions that can pose threats to communities, housing and the lives of listeners,

WHEREAS, the public radio stations in Galena and McGrath have transmitter sites that are located beyond the reach of their local community electric grids,

WHEREAS, these two locally owned and operated public radio stations are currently dependent upon their own diesel generators to provide power to their AM radio transmitters,

WHEREAS, generators have a life expectancy of several years and require high maintenance and frequent replacement,

WHEREAS, both KSKO and KIYU radio stations have suffered from generator failures putting these AM public radio signals off the air for weeks and months at a time,

WHEREAS, McGrath's AM public radio signal has been off the air for 6 months because of generator failures,

WHEREAS, community power is significantly more reliable and dependable than use of generators for primary power sources,

WHEREAS, the price of diesel fuel to power station generators has increased significantly and community power is more cost efficient than diesel generated power to produce,

NOW THEREFORE BE IT RESOLVED THAT the Alaska Public Broadcasting Commission encourages McGrath's KSKO and Galena's KIYU radio stations to pursue conversion to community electric power.

Passed and approved by the Alaska Public Broadcasting Commission this 16th day of June, 2006.

Carl Berger, Co-Chair

Don Loerb, Co-Chair

The Kuskokwim Public Broadcasting Corporation
P.O. Box 70
McGrath, Alaska 99627
Phone 907 524-3001
Fax 907 524-3436

To: Dorothy Shockley

Fax: 456-3346

Pages: 2 with cover

Re: Letter of support for McGrath electric connection

Dorothy,

I've requested several letters of support. This is the first to come in. I will forward more as I receive them.

Mike Lane
KSKO

McGrath Native Village Council

P.O. Box 134
McGrath, AK 99627

Phone
(907) 524-3024

Fax
(907) 524-3899

Email
mnvc@mcgrathalaska.net

February 13, 2007

Senator Albert Kookesh
119 North Cushman, Room 209
Fairbanks, Alaska 99701

Dear Senator Kookesh,

The McGrath Native Village Council sends this letter in support of Public Radio Station KSKO's effort to secure funding for the extension McGrath's power line to the transmitters site.

The McGrath Native Village Council recognizes the importance of Public Radio in our area of rural Alaska. We receive the most up-to-date state, national and international news as well as local weather, sporting information, and community messages, and public announcements by radio. The community messages offer a very valuable service to people that live in the rural areas because it enables them to communicate with their family or friends that do not have access to any other means of communication.

In late 2005, KSKO was forced off the air by the loss of its sole remaining generator; when that happened, it became apparent how important public radio is to us. By being connected to the uninterrupted commercial power provided by McGrath Light and Power, KSKO will no longer be subject to the availability of machinery, parts or engineers as a guarantee of its continued operation.

For these reasons we strongly support the stations efforts to secure funding to get a power line extended to their transmitter sites.

Respectfully,

Matilda Dull

Matilda Dull
Tribal Administrator